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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

		(PCT Rule 43bis.1)		
		Date of mailing (day/month/year)	15 DEC 2004	
Applicant's or agent's file reference		FOR FURTHER ACTION		
MESC:014WO			See paragraph 2 below	
International application No.		(day/month/year)	Priority date (day/month/year)	
PCT/US04/13487	30 April 2004 (30.04.20)04)	01 May 2003 (01.05.2003)	
International Patent Classification (IPC) or both national classification and IPC				
IPC(7): C12N 15/00; A61K 48/00 and US C1.: 435/320.1, 514/44				
Applicant				
MUSC FOUNDATION FOR RESEARC	CH DEVELOPMENT			
1. This opinion contains indications relating to the following items:				
Box No. I Basis of the	Basis of the opinion			
Box No. II Priority	Priority			
Box No. III Non-establi	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
Box No. IV Lack of uni	Lack of unity of invention			
	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Box No. VI Certain doc	Certain documents cited			
Box No. VII Certain defe	Certain defects in the international application			
Box No. VIII Certain obs	Certain observations on the international application			
2. FURTHER ACTION				
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.				
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.				
For further options, see Form PCT/ISA/220.				
3. For further details, see notes to Form PCT/ISA/220.				
Name and mailing address of the ISA/ US Authorized officer				
Mail Stop PCT, Attn: ISA/US Commissioner for Patents Para II Gambey				
P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. (571) 272-0507				
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 Telephone No. (571) 272-0507				

Facsimile No. (703) 305-3230 Form PCT/ISA/237 (cover sheet) (January 2004)

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Box No. I Basis of this opinion		
 With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 		
This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).		
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:		
a. type of material		
a sequence listing		
table(s) related to the sequence listing		
b. format of material		
in written format		
in computer readable form		
c. time of filing/furnishing		
contained in international application as filed.		
filed together with the international application in computer readable form.		
furnished subsequently to this Authority for the purposes of search.		
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.		
4. Additional comments:		

YES

NO

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Box No. V	Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial
	applicability; citations and explanations supporting such statement

1. Statement Novelty (N) Claims 1-53 Claims NONE

Inventive step (IS) Claims 1-53 YES

Claims NONE NO

Industrial applicability (IA)

Claims 1-53

Claims NONE

YES

2. Citations and explanations:

Claims 1-53 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest an expression vector with both the transcription activating factor and the gene encoding a polypeptide under the control of a promoter consisting of a tissue-specific regulatory element and a TAF binding site. In addition, the prior art does not teach expression vectors that also incorporate a transcriptional silencer for another level of regulation.

Claims 1-53 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.